

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000144

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B-007/005 H03F-001/32 H03G-001/04

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B-007/005 H03F-001/32 H03G-001/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms)

Questel Pluspat Delphion IEEE Xplore Canadian National Database

Keywords: (amplifier - predistortion - table - linear )

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X	US 5903611 (Schnabl et al.) 11 May, 1999 (11-05-1999) Abstract; Figure 1; Column 1, lines 19-66; Column 2, lines 6-22; Column 4, lines 1-27; Column 5, lines 31-45	1, 2, 4-8, 10
X	US 2004/0017257 (Kim) 29 Jan, 2004 (29-01-2004) Abstract; Figures 1, 6; Paragraphs [0007], [0008], [0016], [0029], Paragraphs [0031]-[0036], [0062]-[0065]	1-8, 10
P, X	US 2004/0179629 (Song et al.) 16 Sep, 2004 (16-09-2004) Abstract; Figure 2; Paragraphs [0007], [0032], [0054]-[0057]	1-8, 10

Further documents are listed in the continuation of

See patent family annex.

\* Special categories of cited documents :  
"A" document defining the general state of the art which is not considered  
to be of particular relevance  
"E" earlier application or patent but published on or after the international  
filing date  
"L" document which may throw doubt on priority claim(s) or which is  
cited to establish the publication date of another citation or other  
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"P" document published prior to the international filing date but later than  
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"T" later document published after the international filing date or  
priority date and not in conflict with the application but cited  
to understand the principle or theory underlying the invention  
document of particular relevance; the claimed invention cannot  
be considered novel or cannot be considered to involve an  
inventive step when the document is taken alone  
"X" document of particular relevance; the claimed invention cannot  
be considered to involve an inventive step when the document  
is combined with one or more other such documents, such  
combination being obvious to a person skilled in the art  
"Y" document member of the same patent family  
"Q" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
07 March 2005 (07-03-2005)	13 April 2005 (13-04-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9	Authorized officer Mark J. Stephens (819) 934-3472
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PCT/CA2005/000144

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
A	US 6600792 (Antonio et al.) 29 July, 2003 (29-07-2003) *The Whole Document*	1-10
A	US 2002/0186783 (Opas et al.) 12 Dec, 2002 (12-12-2002) *The Whole Document*	1-10
A	US 5937011 (Carney et al.) 10 Aug, 1999 (10-08-1999) *The Whole Document*	1-10
A	EP 1249931 (Price) 16 Oct, 2002 (16-10-2002) *The Whole Document*	1-10
A	US 6304140 (Thron et al.) 16 Oct, 2001 (16-10-2001) *The Whole Document*	1-10
A	US 6275685 (Wessel et al.) 14 Aug, 2001 (14-08-2001) *The Whole Document*	1-10
A	Chen et al. : "Joint Polynominal and Look Up Table Power Amplifier Linearization Scheme" IEEE Vehicular Technology Conference, vol. 2 25 April 2003, pages 1345-1349 Section I - Introduction Section II - System Models	1-10
A	Muhonen et al. : "Adaptive Baseband Predistortion Techniques for Amplifier Linearization" Conference record of the Thirty-third Asilomar Conference on Signals, Systems & Computers vol. 2 October 1999, pages 888-892 Section I - Introduction Section II - Transmitter Configuration	1-10

# INTERNATIONAL SEARCH REPORT

International application No.  
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